P. H. Collins,

Leak Stopper,

No. 64,285. Patented Apr. 30, 1867.

Fig 1

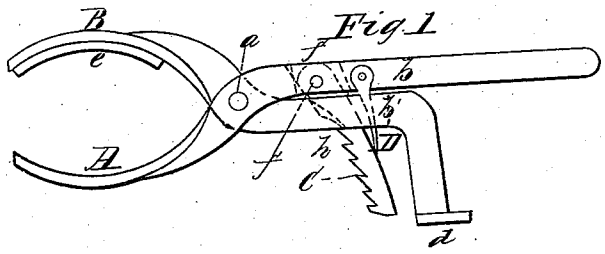


Fig 5

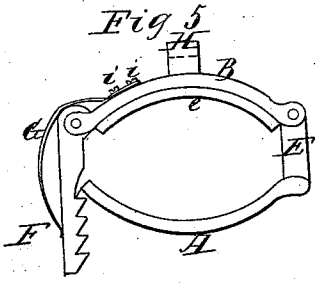


Fig 6.

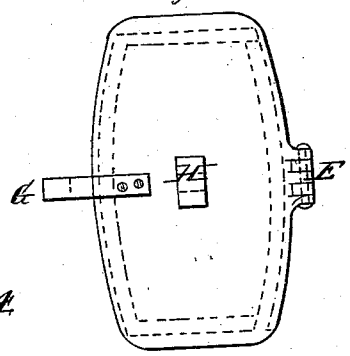


Fig 2.

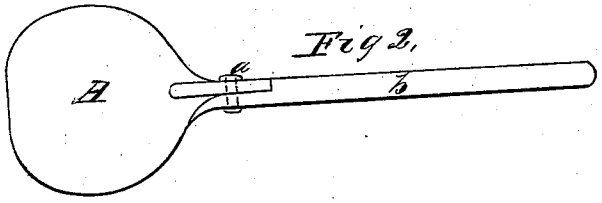
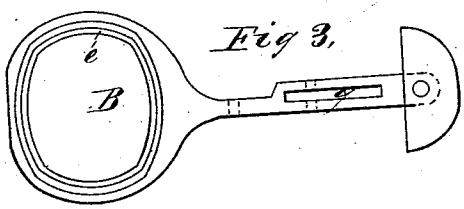


Fig 4



Fig 3.



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United States Patent Office.

PATRICK H. COLLINS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HARRY BITTER AND A. MERRITT ASAY, OF SAME PLACE.

Letters Patent No. 64,285, *dated April* 30, 1867.

IMPROVEMENT IN CLAMPS FOR CLOSING RUPTURES IN FIRE-HOSE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, PATRICK H. COLLINS, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and improved Device for Closing Ruptures in Fire-Hose; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists of a clasping device for closing holes or ruptures in fire-hose to prevent leaking while the hose is in service; said device consisting of a pair of concave clamps recessed, so as to bite into the surface of the hose around a hole or rupture to prevent the escape of water, the handles being confined by means of a ratchet and pawl, so that when the clamps are brought into contact with the hose they will remain in place.

The construction and operation of the device will be understood by the following description. In the accompanying drawings—

Figure 1 is a side elevation of the device.

Figure 2 is a plan of do.

Figure 3 is a reversed plan of the clasping jaw B.

Figure 4 is a cross-section of do., at the red line 1, 2, of fig. 3.

Figure 5 is a side elevation of a modified form of the device.

Figure 6 is a plan of do.

Like letters in all the figures indicate the same parts.

A B, fig. 1, are the bottom and top jaws of the clasp. They are made concave on their inner face, so as to fit or adapt themselves to the surface of the hose. The jaws are connected together by means of the fulcrum pin *a*, through their handles *b c*, the latter of which has a turn downward, and is provided with a foot, *d*, which rests on the ground. On the face of the upper jaw B, there is a projecting knife-edge rib, *e*, which encircles the rupture, and thereby confines the water to prevent its escape as it sinks partially into the face of the hose. The bottom jaw A may also be provided with a depressing-rib, yet it would seldom be necessary. When this jaw is not so constructed, the middle portion may be removed for the purpose of decreasing the weight of the casting. C is a ratchet, hung in a mortise in the handle *b* on the pin *f*. It passes through the slot *g* in the handle *c*, and when the jaws A B are brought into their clasping position, as seen in fig. 1, one of the teeth catches under the projection *h*, and confines the jaws in that position. The spring D, whose heel is secured to the side of the handle *b* by bearing against the back edge of the catch, holds the latter in its place. In addition to the employment of the device for closing ruptures, it may sometimes be used for clasping the hose for the purpose of carrying it into or upon a building. It will readily appear that the construction and arrangement of the clasps are susceptible of much variation without departing from the characteristic features of the invention. A modified form is represented in figs. 5 and 6. In these figures the jaws A B are connected at one edge by means of a hinge, E. Their other edges are brought into connection by means of the ratchet F, which is hung to the upper jaw B and catches under the edge of the jaw A, it being held in position by means of the spring G whose heel is fastened by means of screws *i i* to the jaw B, as seen in fig. 5. H is a lug on the jaw B, which has a cross-hole, *j*, for the insertion of a rod for operating the jaw.

Having thus described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

The recessed clamps, constructed substantially as described.

In testimony whereof I have hereunto set my hand and affixed my seal this fifth day of February, 1867.

P. H. COLLINS. [L. S.]

Witnesses:

STEPHEN USTICK,

W. W. DOUGHERTY.